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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,287	04/02/2004	Ying Liu	893-011757-US (PAR)	2314
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PERMAN & GREEN			CHOWDHURY, AFROZA Y	
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FAIRFIELD, CT 06824			2629	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/817,287

Applicant(s)

LIU ET AL.

Examiner

Afroza Y. Chowdhury

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 January 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 and 6-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 6-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
• Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-4, 6-12, and 15-23 are rejected under 35 U.S.C. 102(e) as being unpatentable by **Matsuura et al.** (US Pub. 2004/0196266).

Regarding claims 1 and 17, Matsuura et al. discloses an apparatus for handwriting recognition, the apparatus comprising:

a touch-sensitive display screen (fig. 1(2)) providing a handwriting input area capable of detecting a handwritten user input ((fig. 1(3), [0020] – [0021]);

and a processing device (fig. 3(18)) configured to interpret the handwritten user input as a symbol from a plurality of predefined symbols ([0035]),

wherein the handwriting input area (fig. 1) includes a writing start area (fig. 1(241-244)),

and wherein said writing start area (fig. 1(241-244)) is substantially smaller than said handwriting input area (fig. 1);

wherein the processing device (fig. 3(18)) is configured to provide a visual indication of said writing start area on said display screen (fig. 1(22), [0024]),

and wherein the processing device (fig. 3(18)) is configured to interpret the user input as a symbol only if the user input starts within said writing start area and ends anywhere within the handwriting area (fig. 1, [0024] – [0025]).

As to claims 2 and 18, Matsuura et al. teaches an apparatus having a user interface in which the display screen is included (fig.1), wherein the processing device (fig. 3(18)) is configured to interpret the user input as a user interface control operation and not as a symbol if the user input starts outside of said writing start area ([0028] – [0029]).

As to claims 3 and 19, Matsuura et al. discloses an apparatus wherein a processing device (fig. 3(18)) is configured to interpret the user input as a user interface control operation and not as a symbol if a pen event within said writing start area is not followed by a pen move event within a prescribed time period ([0045] – [0046]).

As to claim 4, Matsuura et al. teaches an apparatus wherein said writing start area has a fixed location within said handwriting input area (fig. 1(241-244)).

As to claims 6, 7, and 20, Matsuura et al. teaches an apparatus where a processing device (fig. 3(18)) is configured to adjust the location of writing start area (fig. 1(241-244)) depending on a current cursor position (fig. 1, 4).

As to claims 8 and 9, Matsuura et al. teaches an apparatus wherein the handwriting area is formed by a majority of the display screen's available presentation area (fig. 1).

As to claims 10, 11, 21 and 22, Matsuura et al. discloses an apparatus wherein said user input including at least one pen stroke and said processing device is configured to display, on said display screen, a graphical trace representing said at least one pen stroke prior to the interpretation thereof (fig. 1, [0028]).

As to claims 12 and 23, Matsuura et al. teaches an apparatus wherein plurality of predefined symbols includes a symbol set selected from the group consisting of: Latin characters, upper case characters, lower case characters, Arabic numerals, punctuation symbols, Cyrillic characters, Chinese characters, Japanese Kanji symbols, Japanese Hiragana characters and Japanese Katakana characters, and user-defined symbols (fig. 1, [0025], [0038]).

As to claim 15, Matsuura et al. teaches a mobile terminal for a mobile telecommunications system ([0016], [0083]).

As to claim 16, Matsuura et al. teaches an apparatus in the form of a portable/personal digital assistant ([0083]).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 13, 14, 24, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Matsuura et al.** (US Pub. 2004/0196266) in view of **Dutta et al.** (US Patent 6,724,370).

As to claims 13 and 24, Matsuura et al. discloses a character input apparatus with handwriting recognition capability (fig. 1).

Matsuura et al. does not teach an apparatus where a plurality of predefined symbols including a first symbol set, and a second symbol set, and a writing start area comprising a first subarea and a second subarea wherein a processing device is configured to interpret the user input as a symbol from said first symbol set if the user input starts within said first subarea, and as a symbol from said second symbol set if the user input starts within said second subarea.

Dutta et al. teaches an apparatus wherein a plurality of predefined symbols including a first symbol set (fig. 3-5(abc)), and a second symbol set (fig. 3-5(123)), and a writing start area comprising a first subarea (fig. 3-5(abc)) and a second subarea (fig. 3-5(123)) wherein a processing device is configured to interpret the user input as a symbol from said first symbol set if the user input starts within said first subarea (fig. 3-5(abc)), and as a symbol from said second symbol set if the user input starts within said second subarea (fig. 3-5(123)).

Therefore, it is obvious to one skill in the art at the time of the invention was made to incorporate the idea of having subarea of set of symbols of Dutta et al. into the character input apparatus of Matsuura et al. to make a handwriting recognition device for user's convenient.

As to claims 14 and 25, Matsuura et al. teaches Matsuura et al. discloses a character input apparatus with handwriting recognition capability (fig. 1).

Matsuura et al. does not teach an apparatus where a plurality of predetermined symbols comprising a third symbol set, and a writing start area comprising a third subarea, wherein a processing device is configured to interpret the user input as a symbol from third symbol set if the user input starts within third subarea.

Dutta et al. teaches an apparatus wherein a plurality of predetermined symbols comprising a third symbol set, and a writing start area comprising a third subarea, wherein a processing device is configured to interpret the user input as a symbol from third symbol set if the user input starts within third subarea (fig. 3-5).

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Therefore, it is obvious to one skill in the art at the time of the invention was made to incorporate the idea of having subarea of set of symbols of Dutta et al. into the character input apparatus of Matsuura et al. to make a handwriting recognition device to use more symbols.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Afroza Y. Chowdhury whose telephone number is 571-270-1543. The examiner can normally be reached on 7:30-5:00 EST, 5/4/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amare Mengistu can be reached on 571-272-7674. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AC

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1/19/2008


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SUPERVISORY PATENT EXAMINER